Chelsea Sprow

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Project 2

ChadaTech is piloting a strategic shift from the Waterfall development model to the Scrum-Agile framework by developing a client-facing application for SNHU Travel. This paper explains the outcomes of the project's Sprint Review and Retrospective with the analysis necessary for the leadership presentation, demonstrating the application of the SDLC within a reccuring environment.

The success of the SNHU Travel project depended on the defined Scrum roles and transparent processes. The Product Owner prioritized the Product Backlog to maximize business value by focusing on features like personalized travel recommendations. The Development Team demonstrated efficiency by implementing complex integrations, such as the flight and hotel APIs, within time constrained Sprints. As Scrum Master, my role was to protect the process, resolving a critical 3rd party API dependency maintained the team's velocity and ensure they met their commitment to the User Stories.

The Scrum-Agile approach proved effective at both completing features and managing project changes. User Stories reached completion through disciplined Sprint Planning and strict adherence to a Definition of Done. When the project was interrupted by a request for 2 factor authentication 2FA, the Agile model demonstrated its adaptability. The Product Owner added 2FA as a priority item to the Product Backlog, and the team absorbed the work into the next Sprint. This flexibility avoids the freeze required in Waterfall. Communication was effective due to organizational tools like the Digital Kanban Board, which provided transparency, and the Daily Scrum, which used relevant questioning to surface and resolve blocks. I believe that the Scrum-Agile approach was the better method for the SNHU Travel project because its nature and ability to handle requirements and changes were essential for a customer facing application.

The SNHU Travel experience provides evidence for a company wiide shift. The Agile SDLC is entirely different from Waterfall, achieved through continuous cycles where Planning, Design, Implementation, and Testing occur concurrently within the Sprint. This process is run by the 3 roles. The Product Owner defining what, the Scrum Master protecting the how of the process, and the Development Team delivering the how of the solution.

This project also illustrates why Agile is the preferred approach over the current model. I believe if SNHU Travel used the Waterfall model, the mid project 2FA request would have forced a major halt, requiring change control and a return to the Requirements and Design phases to update documentation. This would demonstrate that Waterfall is only suitable for projects with fixed, stable requirements.The Agile approach is ideal for ChadaTech because it accommodates evolving requirements, prioritizes continuous customer feedback, and reduces risk through early, incremental value delivery.

Adopting the Scrum-Agile framework, as demonstrated by the successful pilot, will enhance ChadaTech's product quality, adaptability, and responsiveness to client needs. The success of the SNHU Travel application development confirms the benefits of transitioning to Scrum-Agile. It’s been established that moving away from a sequential model alows ChadaTech to work through large scale failure risks and sustain continuous client engagement. This shift to a reliant SDLC puts the company in a position to deliver products that remain current and relevant to market needs, ensuring a long term return on investment for both ChadaTech and their clients.